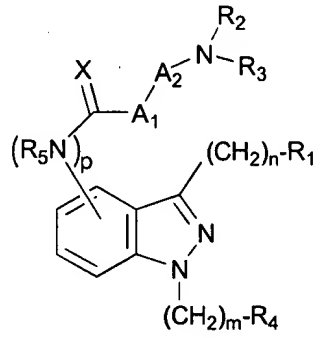
Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A compound of the following formula (I):



(I)

wherein:

A_1 and A_2 are each independently a D- or L-amino acid selected from the group consisting of alanine, β-alanine, arginine, homoarginine, cyclohexylalanine, citrulline, cysteine (optionally substituted with C_1-C_4 alkyl, aryl, or arC_1-C_4 alkyl), 2,4-diaminobutyric acid (optionally substituted with acyl, C_1-C_4 alkyl, aroyl, amidino, or MeC(NH)-), 2,3-diaminopropionic acid (optionally substituted with acyl, C_1-C_4 alkyl, aroyl, amidino, or MeC(NH)-), glutamine, glycine, indanylglycine, lysine (optionally substituted with acyl, C_1-C_4 alkyl, aroyl, MeC(NH)-), valine, methionine, proline, serine (optionally substituted with C_1-C_4 alkyl, aryl, or arC_1-C_4 alkyl), homoserine (optionally substituted with C_1-C_4 alkyl, aryl, or arC_1-C_4 alkyl), tetrahydroisoquinoline-3-COOH, threonine (optionally substituted with C_1-C_4 alkyl, aryl, or arC_1-C_4 alkyl), ornithine (optionally substituted with acyl, C_1-C_4 alkyl, aroyl, MeC(NH)-), and an unsubstituted or substituted aromatic amino acid selected from the group consisting of phenylalanine, heteroarylalanine, naphthylalanine, homophenylalanine, histidine, tryptophan, tyrosine, arylglycine, heteroarylglycine, aryl-β-alanine, and heteroaryl-β-alanine wherein the substituents on the aromatic amino acid are independently selected from ~~one or more~~ the group consisting of halogen, C_1-C_4 alkyl, C_1-C_4 alkoxy, hydroxy, C_1-C_4 alkoxycarbonyl, amino, amidino, guanidino, fluorinated C_1-C_4 alkyl, fluorinated C_1-C_4

alkoxy, C_1-C_4 alkylsulfonyl, C_1-C_4 alkylcarbonyl, cyano, aryl, heteroaryl, arC_1-C_4 alkyl, C_2-C_4 alkenyl, alkynyl, ~~or~~ and nitro;

R_1 is selected from the group consisting of amino, C_1-C_8 alkylamino, C_1-C_8 dialkylamino, arylamino, arC_1-C_8 alkylamino, C_3-C_8 cycloalkylamino, heteroalkylC_1-C_8 alkylamino, heteroalkylC_1-C_8 alkyl-N-methylamino, C_1-C_8 dialkylaminoC_1-C_8 alkylamino, -N(C_1-C_8alkyl)-C_1-C_8 alkyl-N(C_1-C_8alkyl)$_2$, N(C_1-C_8alkyl)(C_1-C_8alkenyl), -N(C_1-C_8alkyl)(C_3-C_8cycloalkyl), heteroalkyl ~~or~~ and substituted heteroalkyl wherein the substituent on the heteroalkyl is selected from the group consisting of oxo, amino, C_1-C_8 alkoxyC_1-C_8 alkyl, C_1-C_8 alkylamino ~~or~~ and C_1-C_8 dialkylamino;

R_2 and R_3 are each independently selected from the group consisting of hydrogen, C_1-C_8 alkyl, C_3-C_8 cycloalkyl, C_3-C_8 cycloalkylC_1-C_8 alkyl, aryl, heteroalkyl, substituted heteroalkyl (wherein the substituent on the heteroalkyl is one or more substituents independently selected from the group consisting of C_1-C_8 alkoxycarbonyl, C_1-C_8 alkyl, ~~or~~ and C_1.C_4 alkylcarbonyl), heteroalkylC_1-C_8 alkyl, indanyl, acetamidinoC_1-C_8 alkyl, aminoC_1-C_8 alkyl, C_1-C_8 alkylaminoC_1-C_8 alkyl, C_1-C_8 dialkylaminoC_1-C_8 alkyl, unsubstituted or substituted heteroarylC_1-C_8 alkyl and ~~or~~ unsubstituted or substituted arC_1-C_8 alkyl, wherein the substituent on the aralkyl or heteroarylalkyl group is one or more substituents independently selected from the group consisting of halogen, nitro, amino, C_1-C_8 alkyl, C_1-C_8 alkoxy, hydroxy, cyano, C_1-C_4 alkylcarbonyl, C_1-C_8 alkoxycarbonyl, hydroxyC_1-C_8 alkyl ~~or~~ and aminosulfonyl; or

R_2 and R_3, together with the nitrogen to which they are attached, alternatively form an unsubstituted or substituted heteroalkyl group selected from the group consisting of piperidinyl, piperazinyl, morpholinyl ~~or~~ and pyrrolidinyl, wherein the substituent is one or more substituents independently selected from the group consisting of C_1-C_8 alkyl C_1-C_8 alkoxycarbonyl ~~or~~ and C_1-C_4 alkylcarbonyl;

R_4 is selected from the group consisting of unsubstituted or substituted aryl, arC_1-C_8 alkyl, C_3-C_8 cycloalkyl, ~~or~~ and heteroaryl, where the substituents on the aryl, arC_1-C_8 alkyl, cycloalkyl or heteroaryl group are independently selected from the group consisting of ~~one or more~~ of halogen, nitro, amino, cyano, hydroxyalkyl, C_1-C_8 alkyl, C_1-C_8 alkoxy, hydroxy, C_1-C_4 alkylcarbonyl, C_1-C_8 alkoxycarbonyl, fluorinated C_1-C_4 alkyl, fluorinated C_1-C_4 alkoxy, and C_1-C_4 alkylsulfonyl;

R_5 is selected from the group consisting of hydrogen ~~or~~ and C_1-C_8 alkyl;

X is selected from the group consisting of oxygen ~~or~~ and sulfur;

m is an integer selected from the group consisting of 0, 1, 2 ~~or~~ and 3;

n is an integer selected from the group consisting of 1 ~~or~~ and 2; and

p is an integer selected from the group consisting of 0 ~~or~~ and 1;

and pharmaceutically acceptable salts thereof.

2. (Currently Amended) The compound of Claim 1, wherein:

A_1 and A_2 are each independently an L-amino acid selected from the group consisting of alanine, β -alanine, arginine, homoarginine, cyclohexylalanine, citrulline, cysteine (optionally substituted with C_1-C_4 alkyl, aryl, or arC_1-C_4 alkyl), 2,4-diaminobutyric acid (optionally substituted with acyl, C_1-C_4 alkyl, aroyl, amidino, or MeC(NH)-), 2,3-diaminopropionic acid (optionally substituted with acyl, C_1-C_4 alkyl, aroyl, amidino, or MeC(NH)-), glutamine, glycine, indanylglycine, lysine (optionally substituted with acyl, C_1-C_4 alkyl, aroyl, MeC(NH)-), valine, methionine, proline, serine (optionally substituted with C_1-C_4 alkyl, aryl, or arC_1-C_4 alkyl), homoserine (optionally substituted with C_1-C_4 alkyl, aryl, or arC_1-C_4 alkyl), tetrahydroisoquinoline-3-COOH, threonine (optionally substituted with C_1-C_4 alkyl, aryl, or arC_1-C_4 alkyl), ornithine (optionally substituted with acyl, C_1-C_4 alkyl, aroyl, MeC(NH)-), and an unsubstituted or substituted aromatic amino acid selected from the group consisting of phenylalanine, heteroarylalanine, naphthylalanine, homophenylalanine, histidine, tryptophan, tyrosine, arylglycine, heteroarylglycine, aryl-β-alanine, and heteroaryl-β-alanine wherein the substituents on the aromatic amino acid are independently selected from the group consisting ~~one or more~~ of halogen, C_1-C_4 alkyl, C_1-C_4 alkoxy, hydroxy, C_1-C_4 alkoxycarbonyl, amino, amidino, guanidino, fluorinated C_1-C_4 alkyl, fluorinated C_1-C_4 alkoxy, C_1-C_4 alkylsulfonyl, C_1-C_4 alkylcarbonyl, cyano, aryl, heteroaryl, arC_1-C_4 alkyl, C_2-C_4 alkenyl, alkynyl, ~~or~~ and nitro;

R_1 is selected from the group consisting of amino, C_1-C_6 alkylamino, C_1-C_6 dialkylamino, arylamino, arC_1-C_6 alkylamino, heteroalkylC_1-C_6 alkylamino, -N(C_1-C_6alkyl)-C_1-C_6 alkyl-N(C_1-C_6alkyl)$_2$, heteroalkyl ~~or~~ and substituted heteroalkyl wherein the substituent on the heteroalkyl is selected from the group consisting of oxo, amino, C_1-C_6alkoxyC_1-C_6 alkyl, C_1-C_6 alkylamino ~~or~~ and C_1-C_6 dialkylamino;

R_2 is selected from the group consisting of hydrogen ~~or~~ and C_1-C_6 alkyl;

R_3 is selected from the group consisting of C_1-C_8 alkyl, C_3-C_6 cycloalkyl, C_3-C_6cycloalkylC_1-C_6alkyl, aryl, heteroarylC_1-C_6 alkyl, and substituted heteroarylC_1-C_6alkyl wherein the substituent is selected from the group consisting of C_1-C_4 alkyl, heteroalkyl, heteroalkylC_1-C_6 alkyl, indanyl, acetamidinoC_1-C_6 alkyl, aminoC_1-C_6 alkyl, C_1-C_6alkylaminoC_1-C_6 alkyl, C_1-C_6 dialkylaminoC_1-C_6 alkyl, arC_1-C_8alkyl, and substituted arC_1-C_8 alkyl (wherein the substituent on the aralkyl group is one to five substituents independently selected from the group consisting of halogen, nitro, amino, C_1-C_6 alkyl, C_1-C_6 alkoxy, C_1-C_6 alkoxycarbonyl, hydroxyalkyl ~~or~~ and aminosulfonyl);

R_2 and R_3, together with the nitrogen to which they are attached, alternatively form an unsubstituted or substituted heteroalkyl group selected from the group consisting of piperidinyl, piperazinyl ~~or~~ and pyrrolidinyl, wherein the substituent is independently one or two substituents selected from C_1-C_6 alkyl;

R_4 is selected from the group consisting of unsubstituted or substituted aryl, arC_1-C_6 alkyl, C_3-C_6cycloalkyl ~~or~~ and heteroaryl, where the substituents on the aryl, aralkyl, cycloalkyl or heteroaryl group are independently selected from one to three substituents selected from the group consisting of halogen, cyano, C_1-C_4 alkyl, C_1-C_4 alkoxy, C_1-C_4alkoxycarbonyl, fluorinated C_1-C_4 alkyl, fluorinated C_1-C_4 alkoxy ~~or~~ and C_1-C_4alkylsulfonyl;

R_5 is hydrogen;

X is oxygen; and

p is 1;

and pharmaceutically acceptable salts thereof.

3. (Currently Amended) The compound of Claim 2, wherein:

A_1 is an L-amino acid selected from the group consisting of alanine, arginine, cyclohexylalanine, glycine, proline, tetrahydroisoquinoline-3-COOH, and an unsubstituted or substituted aromatic amino acid selected from the group consisting of phenylalanine, naphthylalanine, homophenylalanine, and O-methyl tyrosine, wherein the substituents on the aromatic amino acid are independently one to five substituents selected from the group consisting of halogen, C_1-C_4 alkyl, C_1-C_4 alkoxy, hydroxy, C_1-C_4 alkoxycarbonyl, amino,

amidino, guanidino, fluorinated C_1-C_4 alkyl, fluorinated C_1-C_4 alkoxy, C_1-C_4 alkylsulfonyl, C_1-C_4 alkylcarbonyl, cyano, aryl, heteroaryl, arC_1-C_4 alkyl, C_2-C_4 alkenyl, alkynyl, ~~or~~ and nitro;

A_2 is an L-amino acid selected from the group consisting of alanine, β-alanine, arginine, citrulline, cysteine (optionally substituted with a substituent selected from the group consisting of C_1-C_4 alkyl, aryl, ~~or~~ and arC_1-C_4 alkyl), 2,4-diaminobutyric acid (optionally substituted with a substituent selected from the group consisting of acyl, C_1-C_4 alkyl, aroyl, amidino, ~~or~~ and MeC(NH)-), 2,3- diaminopropionic acid (optionally substituted with a group selected from the group consisting of acyl, C_1-C_4 alkyl, aroyl, amidino, ~~or~~ and MeC(NH)-), glutamine, glycine, lysine (optionally substituted with a substituent selected from the group consisting of acyl, C_1-C_4 alkyl, aroyl, and MeC(NH)-), valine, methionine, serine (optionally substituted with a substituent selected from the group consisting of C_1-C_4 alkyl, aryl, ~~or~~ and arC_1-C_4 alkyl), homoserine (optionally substituted with a substituent selected from the group consisting of C_1-C_4 alkyl, aryl, ~~or~~ and arC_1-C_4 alkyl), threonine (optionally substituted with a substituent selected from the group consisting of C_1-C_4 alkyl, aryl, ~~or~~ and arC_1-C_4 alkyl), ornithine (optionally substituted with a substituent selected from the group consisting of acyl, C_1-C_4 alkyl, aroyl, and MeC(NH)-), and an unsubstituted or substituted aromatic amino acid selected from the group consisting of phenylalanine, heteroarylalanine, and histidine, wherein the substituents of the aromatic amino acid are independently one to five substituents selected from the group consisting of halogen, C_1-C_4 alkyl, C_1-C_4 alkoxy, hydroxy, C_1-C_4 alkoxycarbonyl, amino, amidino, guanidino, fluorinated C_1-C_4 alkyl, fluorinated C_1-C_4 alkoxy, C_1-C_4 alkylsulfonyl, C_1-C_4 alkylcarbonyl, cyano, aryl, heteroaryl, arC_1-C_4 alkyl, C_2-C_4 alkenyl, alkynyl, ~~or~~ and nitro;

R_2 is selected from the group consisting of hydrogen ~~or~~ and C_1-C_4 alkyl; and

m and n are both 1;

and pharmaceutically acceptable salts thereof.

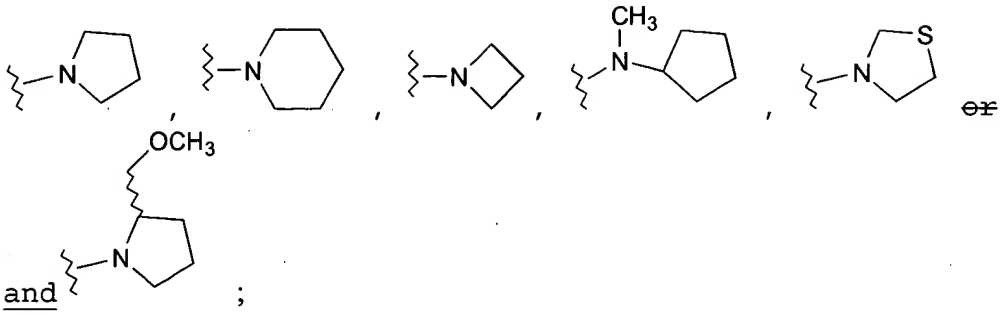
4. (Currently Amended) The compound of Claim 3, wherein:

A_1 is an L-amino acid selected from the group consisting of alanine, arginine, cyclohexylalanine, proline, tetrahydroisoquinoline-3-COOH, and an unsubstituted or substituted aromatic amino acid selected from the group consisting of phenylalanine,

naphthylalanine, homophenylalanine, and O-methyl tyrosine, wherein the substituents on the aromatic amino acid are independently one to two substituents selected from halogen, C_1-C_4 alkyl, C_1-C_4 alkoxy, hydroxy, C_1-C_4 alkoxycarbonyl, amino, amidino, guanidino, fluorinated C_1-C_4 alkyl, fluorinated C_1-C_4 alkoxy, C_1-C_4 alkylsulfonyl, C_1-C_4 alkylcarbonyl, cyano, aryl, heteroaryl, arC_1-C_4 alkyl, C_2-C_4 alkenyl, alkynyl, or nitro;

A_2 is an L-amino acid selected from the group consisting of alanine, β-alanine, arginine, citrulline, cysteine (optionally substituted with a substituent selected from the group consisting of C_1-C_4 alkyl, aryl, ~~or~~ and arC_1-C_4 alkyl), 2,4-diaminobutyric acid (optionally substituted with a substituent selected from the group consisting of acyl, C_1-C_4 alkyl, aroyl, amidino, ~~or~~ and MeC(NH)-), 2,3-diaminopropionic acid (optionally substituted with a substituent selected from the group consisting of acyl, C_1-C_4 alkyl, aroyl, amidino, ~~or~~ and MeC(NH)-), glutamine, glycine, lysine (optionally substituted with a substituent selected from the group consisting of acyl, C_1-C_4 alkyl, aroyl, and MeC(NH)-), valine, methionine, serine (optionally substituted with a substituent selected from the group consisting of C_1-C_4 alkyl, aryl, ~~or~~ and arC_1-C_4 alkyl), homoserine (optionally substituted with a substituent selected from the group consisting of C_1-C_4 alkyl, aryl, ~~or~~ and arC_1-C_4 alkyl), threonine (optionally substituted with a substituent selected from the group consisting of C_1-C_4 alkyl, aryl, ~~or~~ and arC_1-C_4 alkyl), ornithine (optionally substituted with a substituent selected from the group consisting of acyl, C_1-C_4 alkyl, aroyl, and MeC(NH)-), and an unsubstituted or substituted aromatic amino acid selected from the group consisting of phenylalanine, heteroarylalanine, and histidine, wherein the substituents on the aromatic amino acid are independently one to two substituents selected from the group consisting of halogen, C_1-C_4 alkyl, C_1-C_4 alkoxy, hydroxy, C_1-C_4 alkoxycarbonyl, amino, amidino, guanidino, fluorinated C_1-C_4 alkyl, fluorinated C_1-C_4 alkoxy, C_1-C_4 alkylsulfonyl, C_1-C_4 alkylcarbonyl, cyano, aryl, heteroaryl, arC_1-C_4 alkyl, C_2-C_4 alkenyl, alkynyl, ~~or~~ and nitro;

R_1 is selected from the group consisting of diethylamino, di-(*n*-propyl)amino,



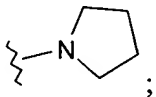
R_2 is selected from the group consisting of hydrogen, methyl ~~or~~ and ethyl;

R_3 is selected from the group consisting of 2- indanyl, phenyl, cyclohexylmethyl, cyclopentyl, pyridylmethyl, furanylmethyl, 2-(4-methyl-furanyl)methyl, thienylmethyl, diphenylmethyl, 4-imidazolylethyl, 2-(4-N-methyl)imidazolylethyl, *n*-octyl, phenyl-*n*-propyl, aminoethyl, aminopropyl, amino-*n*-pentyl, dimethylaminoethyl, 4-aminophenylsulfonylaminomethyl, acetamidineylethyl, 2-N-pyrrolidinylethyl, N-ethoxycarbonylpiperidinyl, unsubstituted or substituted phenylethyl and unsubstituted or substituted benzyl wherein the substituents on the phenylethyl or benzyl are independently one or two substituents selected from the group consisting of methyl, fluorine, chlorine, nitro, methoxy, methoxycarbonyl ~~or~~ and hydroxymethyl; or

R_2 and R_3, together with the nitrogen to which they are attached, alternatively form a heteroalkyl group selected from the group consisting of piperidinyl, ~~or~~ and 4-(N-methyl)piperazinyl; and

R_4 is selected from the group consisting of cyclohexyl, 2-naphthyl, phenylethyl, 4-fluorophenylethyl ~~or~~ and unsubstituted or substituted phenyl, where the substituents on the phenyl are independently selected from one to two substituents selected from the group consisting of fluorine, chlorine, iodine, methyl, cyano ~~or~~ and trifluoromethyl;
and pharmaceutically acceptable salts thereof.

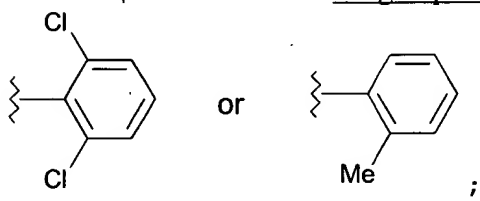
5. (Original) The compound of Claim 4, wherein:

R_1 is  ;

and pharmaceutically acceptable salts thereof.

6. (Currently Amended) The compound of Claim 5, wherein:

R_4 is selected from the group consisting of



;

and pharmaceutically acceptable salts thereof.

7. (Currently Amended) The compound of Claim 6, wherein:

A_1 is selected from the group consisting of 3,4-Difluorophenylalanine ~~or~~ and 4-Chlorophenylalanine;

A_2 is selected from the group consisting of 2,4-Diaminobutyric acid ~~or~~ and 4-Pyridylalanine;

R_2 is hydrogen; and

R_3 is selected from the group consisting of benzyl ~~or~~ and 2-aminoethyl;

and pharmaceutically acceptable salts thereof.

8. (Original) A pharmaceutical composition comprising a pharmaceutically acceptable carrier and a compound of Claim 1.

9. (Original) A pharmaceutical composition made by mixing a compound of Claim 1 and a pharmaceutically acceptable carrier.

10. (Original) A process for making a pharmaceutical composition comprising mixing a compound of Claim 1 and a pharmaceutically acceptable carrier.

11. (Withdrawn) A method of treating a condition selected from the group consisting of thrombosis, restenosis, hypertension, heart failure, arrhythmia, myocardial infarction,

glomerulonephritis, reocclusion following thrombolytic therapy, reocclusion following angioplasty, inflammation, angina, stroke, atherosclerosis, ischemic conditions, a vaso-occlusive disorder, neurodegenerative disorders, Angiogenesis related disorders and cancer in a subject in need thereof comprising administering to the subject a therapeutically effective amount of the compound of Claim 1.

12. (Withdrawn) The method of Claim 11, wherein the therapeutically effective amount of the compound is from about 0.1 mg/kg/day to about 300 mg/kg/day.

13. (Withdrawn) A method of treating a condition selected from the group consisting of thrombosis, restenosis, hypertension, heart failure, arrhythmia, myocardial infarction, glomerulonephritis, reocclusion following thrombolytic therapy, reocclusion following angioplasty, inflammation, angina, stroke, atherosclerosis, ischemic conditions, a vaso-occlusive disorder, neurodegenerative disorders, Angiogenesis related disorders and cancer in a subject in need thereof comprising administering to the subject a therapeutically effective amount of the composition of Claim 8.

14. (Withdrawn) The method of Claim 13, wherein the therapeutically effective amount of the compound is from about 0.1 mg/kg/day to about 300 mg/kg/day.

15. (Withdrawn) A method of inhibiting platelet aggregation in a subject in need thereof comprising administering to the subject a therapeutically effective amount of the compound of Claim 1.

16. (Withdrawn) The method of Claim 15, wherein the therapeutically effective amount of the compound is from about 0.1 mg/kg/day to about 300 mg/kg/day.

17. (Withdrawn) A method of inhibiting platelet aggregation in a subject in need thereof comprising administering to the subject a therapeutically effective amount of the composition of Claim 8.

18. (Withdrawn) The method of Claim 17, wherein the therapeutically effective amount of the compound is from about 0.1 mg/kg/day to about 300 mg/kg/day.

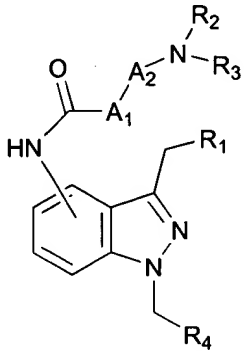
19. (Original) A method of treating a condition mediated by thrombin receptor (PAR-1) in a subject in need thereof comprising administering to the subject a therapeutically effective amount of the compound of Claim 1.

20. (Original) The method of Claim 19, wherein the therapeutically effective amount of the compound is from about 0.1 mg/kg/day to about 300 mg/kg/day.

21. (Original) A method of treating a condition mediated by thrombin receptor (PAR-1) in a subject in need thereof comprising administering to the subject a therapeutically effective amount of the composition of Claim 8.

22. (Original) The method of Claim 21, wherein the therapeutically effective amount of the compound is from about 0.1 mg/kg/day to about 300 mg/kg/day.

23. (Currently Amended) A process for preparing a compound of the formula (II):



(II)

wherein:

A_1 and A_2 are each independently a D- or L-amino acid selected from the group consisting of alanine, β-alanine, arginine, homoarginine, cyclohexylalanine, citrulline, cysteine (optionally substituted with a substituent selected from the group consisting of C_1-C_4

alkyl, aryl, ~~or~~ and arC_1-C_4 alkyl), 2,4-diaminobutyric acid (optionally substituted with a substituent selected from the group consisting of acyl, C_1-C_4 alkyl, aroyl, amidino, ~~or~~ and MeC(NH)-), 2,3-diaminopropionic acid (optionally substituted with a substituent selected from the group consisting of acyl, C_1-C_4 alkyl, aroyl, amidino, ~~or~~ and MeC(NH)-), glutamine, glycine, indanylglycine, lysine (optionally substituted with a substituent selected from the group consisting of acyl, C_1-C_4 alkyl, aroyl, and MeC(NH)-), valine, methionine, proline, serine (optionally substituted with a substituent selected from the group consisting of C_1-C_4 alkyl, aryl, ~~or~~ and arC_1-C_4 alkyl), homoserine (optionally substituted with a substituent selected from the group consisting of C_1-C_4 alkyl, aryl, ~~or~~ and arC_1-C_4 alkyl), tetrahydroisoquinoline-3-COOH, threonine (optionally substituted with a substituent selected from the group consisting of C_1-C_4 alkyl, aryl, ~~or~~ and arC_1-C_4 alkyl), ornithine (optionally substituted with a substituent selected from the group consisting of acyl, C_1-C_4 alkyl, aroyl, and MeC(NH)-), and an unsubstituted or substituted aromatic amino acid selected from the group consisting of phenylalanine, heteroarylalanine, naphthylalanine, homophenylalanine, histidine, tryptophan, tyrosine, arylglycine, heteroarylglycine, aryl-β-alanine, and heteroaryl-β-alanine wherein the substituents on the aromatic amino acid are independently selected from ~~one or more~~ the group consisting of halogen, C_1-C_4 alkyl, C_1-C_4 alkoxy, hydroxy, C_1-C_4 alkoxycarbonyl, amino, amidino, guanidino, fluorinated C_1-C_4 alkyl, fluorinated C_1-C_4 alkoxy, C_1-C_4 alkylsulfonyl, C_1-C_4 alkylcarbonyl, cyano, aryl, heteroaryl, arC_1-C_4 alkyl, C_2-C_4 alkenyl, alkynyl, ~~or~~ and nitro;

R_1 is selected from the group consisting amino, C_1-C_8 alkylamino, C_1-C_8 dialkylamino, arylamino, arC_1-C_8 alkylamino, C_3-C_8 cycloalkylamino, heteroalkylC_1-C_8 alkylamino, heteroalkylC_1-C_8 alkyl-N-methylamino, C_1-C_8 dialkylaminoC_1-C_8 alkylamino, -N(C_1-C_8alkyl)-C_1-C_8 alkyl-N(C_1-C_8alkyl)$_2$, N(C_1-C_8alkyl)(C_1-C_8alkenyl), -N(C_1-C_8alkyl)(C_3-C_8cycloalkyl), heteroalkyl ~~or~~ and substituted heteroalkyl wherein the substituent on the heteroalkyl is selected from the group consisting oxo, amino, C_1-C_8 alkoxyC_1-C_8 alkyl, C_1-C_8 alkylamino ~~or~~ and C_1-C_8 dialkylamino;

R_2 and R_3 are each independently selected from the group consisting hydrogen, C_1-C_8 alkyl, C_3-C_8 cycloalkyl, C_3-C_8 cycloalkylC_1-C_8 alkyl, aryl, heteroalkyl, substituted heteroalkyl (wherein the substituent on the heteroalkyl is one or more substituents independently selected from the group consisting C_1-C_8 alkoxycarbonyl, C_1-C_8 alkyl, ~~or~~ and

C_1-C_4 alkylcarbonyl), heteroalkylC_1-C_8 alkyl, indanyl, acetamidinoC_1-C_8 alkyl, aminoC_1-C_8 alkyl, C_1-C_8 alkylaminoC_1-C_8 alkyl, C_1-C_8 dialkylaminoC_1-C_8 alkyl, unsubstituted or substituted heteroarylC_1-C_8 alkyl ~~or~~ and unsubstituted or substituted arC_1-C_8 alkyl, wherein the substituent on the aralkyl or heteroarylalkyl group is one or more substituents independently selected from the group consisting halogen, nitro, amino, C_1-C_8 alkyl, C_1-C_8 alkoxy, hydroxy, cyano, C_1-C_4 alkylcarbonyl, C_1-C_8 alkoxycarbonyl, hydroxyC_1-C_8 alkyl ~~or~~ and aminosulfonyl; or

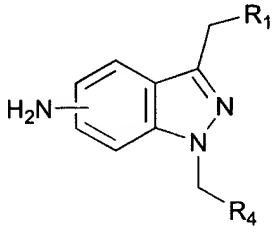
R_2 and R_3, together with the nitrogen to which they are attached, alternatively form an unsubstituted or substituted heteroalkyl group selected from the group consisting piperidinyl, piperazinyl, morpholinyl ~~or~~ and pyrrolidinyl, wherein the substituent is one or more substituents independently selected from the group consisting C_1-C_8 alkyl C_1-C_8 alkoxycarbonyl ~~or~~ and C_1-C_4 alkylcarbonyl;

R_4 is selected from the group consisting unsubstituted or substituted aryl, arC_1-C_8 alkyl, C_3-C_8 cycloalkyl, ~~or~~ and heteroaryl, where the substituents on the aryl, arC_1-C_8 alkyl, cycloalkyl or heteroaryl group are independently selected from ~~one or more~~ the group consisting of halogen, nitro, amino, cyano, hydroxyalkyl, C_1-C_8 alkyl, C_1-C_8 alkoxy, hydroxy, C_1-C_4 alkylcarbonyl, C_1-C_8 alkoxycarbonyl, fluorinated C_1-C_4 alkyl, fluorinated C_1-C_4 alkoxy, and C_1-C_4 alkylsulfonyl;

comprising reacting a compound of the formula **AAG6**:

$H\text{-}A_1\text{-}A_2\text{-}NR_2R_3$,

with a compound of the formula **AAG4**:



,

in the presence of a phosgene equivalent to form the compound of formula (II).